

Cell Analogy - Willy Wonka's Factory

Name: _____

Date: _____ Section: ____ - ____

Background Information

You recently visited Willy Wonka's candy factory. The main thing that the factory makes and exports are chocolate bars. These chocolate bars come in different flavors and sizes. The chocolate bars are important for the survival of the workers in the factory and people in nearby towns. Everyone in the factory has something to do with chocolate bar making and the entire factory is designed to build and export chocolate bars. The main office (where Willy Wonka stays) is where you find the recipes for making chocolate bars. Water needed to make the chocolate is stored a large container in the factory. There are small chocolate making machines spread throughout the entire factory. The chocolate making machines are attached to a conveyer belt which can send the chocolate to other places in the factory. In order for a chocolate bar to be exported, the conveyer belts take the chocolate to the post office, where the chocolate is packaged and labeled for export. Sometimes the candy doesn't turn out right and they taste horrible. The "bad" candy and other garbage are sent to the scrap yard where they are destroyed. There are also generators in the factory that burn coal to run the factory. The coal that the generators burn is made by "coal machines" spread around the factory. The entire factory is surrounded by a large wooden fence and only the postal trucks (and workers) are allowed to enter or leave the factory.

Instructions: Match the parts of Willy Wonka's factory (underlined) with something related to the cell and explain why you think they are related.

FACTORY PART	RELATION TO CELL PART?	REASON?
Chocolate bars		
Main office		
Storage container		
Chocolate-making machines		
Energy generators		
Coal-making machines		
Scrapyard		
Security fence		
Other?		

Answers

Factory Part	Cell Relation?	Reason?
1. Chocolate bars	PROTEIN	
2. Main office	NUCLEUS	
3. Container	VACUOLE	
4. Chocolate making machines	RIBOSOMES	
5. Generators	MITOCHONDRIA	
6. Coal machines	CHLOROPLASTS	
7. Scrapyard	LYSOSOMES	
8. Fence	CELL MEMBRANE??	